

- ABC News. (2011). *Nebraska Residents in No Danger After Floods Hit Nuke Plant: Waters Breach Berm at Fort Calhoun Nuclear Station*. <https://abcnews.go.com/US/nebraska-residents-danger-floods-hit-nuke-plant-waters/story?id=13932406> (Diakses tanggal 5 Februari 2023)
- Affandi, F. A., & Ishak, M. Y. (2019). Impacts of suspended sediment and metal pollution from mining activities on riverine fish population—a review. *Environmental Science and Pollution Research*, 26(17), 16939–16951. <https://doi.org/10.1007/s11356-019-05137-7>
- Agasi, A., Sholichin, M., & Andawayanti, U. (2018). Analisis kekeritisan lahan di DAS Raya dan Upaya Konservasi Danau Serantangan Menggunakan Program AVSWAT 2000 di Kota Singkawang Provinsi Kalimantan Barat. *Jurnal Mahasiswa Jurusan Teknik Pengairan*, 2(1).
- Akoko, G., Le, T. H., Gomi, T., & Kato, T. (2021). A review of swat model application in africa. *Water (Switzerland)*, 13(9). <https://doi.org/10.3390/w13091313>
- Alhakim, E. E., Setiawan, M. A., Mellawati, J., Iswanto, E. R., & Setiaji, A. B. W. (2025). Spatial analysis of sedimentation hazard in the catchment area of the Indonesia nuclear power plant. *Journal of Degraded and Mining Lands Management*, 12(2), 6953–6963. <https://doi.org/10.15243/jdmlm.2025.122.6953>
- Alhakim, E. E., Susiati, H., & Sunarko, S. (2019). Analisis Spasial Awal Lokasi Calon Tapak PLTN Di Kalimantan Barat. *Seminar Nasional Infrastruktur Energi Nuklir*, 173–179.
- Alimah, S., & H.Salimy, D. (2016). Potensi Pembentukan Kerak Pada Instalasi Desalinasi Nuklir Med Dengan Air Umpan Dari Teluk Manggris Potential of Scale Formation in Med Nuclear Desalination Plant With Feed Water of Manggris Gulf. *Majalah Ilmiah Pengkajian Industri*, 10, 149–156.
- Anwar, M., Pawitan, H., Murtalaksono, K., & Jaya, I. N. S. (2011). Respons Hidrologi Akibat Deforestasi di DAS Barito Hulu, Kalimantan Tengah. *Jmht*, XVII(3), 119–126.
- Arma, N. (2022). *Penerapan Rencana Pola Ruang Untuk Mitigasi Banjir Di Daerah Aliran Sungai Pissua dan Puncara*.
- Arndt, S., Rücker, R., Stenglein, A., & Waldvogel, S. R. (2022). Reactor Design for the Direct Electrosynthesis of Periodate. *Organic Process Research & Development*, 26(8), 2447–

- Arnell, N. W., & Gosling, S. N. (2013). The impacts of climate change on river flow regimes at the global scale. *Journal of Hydrology*, 486, 351–364. <https://doi.org/https://doi.org/10.1016/j.jhydrol.2013.02.010>
- Arnold, J. ., Kiniry, J. R., Srinivasan, R., Williams, J. R., Haney, E. B., & Neitsch, S. L. (2012). Appendix A: Model Databases. In *SWAT Input/Output File Documentation, Version 2012*.
- Arnold, J. G., Moriasi, D. N., Gassman, P. W., Abbaspour, K. C., White, M. J., Srinivasan, R., Santhi, C., Harmel, R. D., Griensven, A. van, Liew, M. W. Van, Kannan, N., & Jha, M. K. (2012). SWAT: Model Use, Calibration, And Validation. *American Society of Agricultural and Biological Engineers*, 55(4), 1491–1508.
- Arnold, J. G., Srinivasan, R., Muttiah, R. S., & Williams, J. R. (1998). Large area hydrologic modeling and assessment part I: Model development. In *Journal of the American Water Resources Association* (Vol. 34, Issue 1, pp. 73–89). <https://doi.org/10.1111/j.1752-1688.1998.tb05961.x>
- Asselman, N. E. M., Middelkoop, H., & Van Dijk, P. M. (2003). The impact of changes in climate and land use on soil erosion, transport and deposition of suspended sediment in the River Rhine. *Hydrological Processes*, 17(16), 3225–3244.
- Atangana, A., Khasa, D., Chang, S., & Degrande, A. (2013). Tropical agroforestry. In *Tropical Agroforestry* (pp. 203–216). <https://doi.org/10.1007/978-94-007-7723-1>
- Balasubramanian, A. (2017). *Soil Erosion- Causes and Effects Soil Erosion – Causes and Effects By Prof . A . Balasubramanian Centre for Advanced Studies in Earth Science , University of Mysore , Mysore. March.* <https://doi.org/10.13140/RG.2.2.26247.39841>
- BAPETEN. (2014). *Peraturan Kepala BAPETEN Nomor 6 Tahun 2014 Tentang Evaluasi Tapak Intanlansi Nuklir Untuk Aspek Meteorologi dan Hidrologi.* 1–8.
- BAPETEN. (2020). *Peraturan BAPETEN Nomor 1 Tahun 2020 tentang Aspek Proteksi Radiasi dalam Desain Reaktor Daya.*
- Basu, P. C. (2019). Site evaluation for nuclear power plants – The practices. *Nuclear Engineering and Design*, 352(June), 110140. <https://doi.org/10.1016/j.nucengdes.2019.06.002>

- Bilal, A., Xie, Q., & Zhai, Y. (2020). Flow, sediment, and morpho-dynamics of river confluence in tidal and non-tidal environments. *Journal of Marine Science and Engineering*, 8(8). <https://doi.org/10.3390/JMSE8080591>
- Biru, Z., & Kumar, D. (2018). Calibration and validation of SWAT model using stream flow and sediment load for Mojo watershed, Ethiopia. *Sustainable Water Resources Management*, 4(4), 937–949. <https://doi.org/10.1007/s40899-017-0189-1>
- Bochet, E., Poesen, J., & Rubio, J. (2006). Runoff and soil loss under individual plants of a semi-arid Mediterranean shrubland. *Earth Surface Processes and Landforms*, 31, 536–549. <https://doi.org/10.1002/esp.1351>
- Borrelli, P., Robinson, D. A., Fleischer, L. R., Lugato, E., Ballabio, C., Alewell, C., Meusburger, K., Modugno, S., Schütt, B., Ferro, V., Bagarello, V., Oost, K. Van, Montanarella, L., & Panagos, P. (2017). An assessment of the global impact of 21st century land use change on soil erosion. *Nature Communications*, 8(1). <https://doi.org/10.1038/s41467-017-02142-7>
- Borrelli, P., Robinson, D. A., Panagos, P., Lugato, E., Yang, J. E., Alewell, C., Wuepper, D., Montanarella, L., & Ballabio, C. (2020). Land use and climate change impacts on global soil erosion by water (2015–2070). *Proceedings of the National Academy of Sciences of the United States of America*, 117(36), 21994–22001. <https://doi.org/10.1073/pnas.2001403117>
- Buytaert, W., Wyseure, G., De Bièvre, B., & Deckers, J. (2005). The Effect of Land-Use Changes on the Hydrological Behavior of Histic Andosols in South Ecuador. *Hydrological Processes*, 19, 3985–3997. <https://doi.org/10.1002/hyp.5867>
- Christanto, N., Setiawan, M. A., Kholis, A. N., Sharma, R., & Shrestha, D. P. (2024). Impacts of Land Use on Runoff and Sediment Dynamics in Tropical Watersheds: A Case Study in Bogowonto Upper Watershed. *Jambura Geoscience Review*, 6(2), 96–105. <https://doi.org/10.37905/jgeosrev.v6i2.26055>
- Christanto, N., Setiawan, M. A., Nurkholis, A., Istiqomah, S., Sartohadi, J., & Hadi, M. P. (2018). Analisis Laju Sedimen DAS Serayu Hulu dengan Menggunakan Model SWAT. *Majalah Geografi Indonesia*, 32(1), 50. <https://doi.org/10.22146/mgi.32280>
- Christanto, N., Setiawan, M. A., Nurkholis, A., Sartohadi, J., & Hadi, M. P. (2020). The use of

global datasets in the SWAT model for tropical watershed with limited ground data: A case study in serayu upper catchment. *Taiwan Water Conservancy*, 68(3), 18–27. [https://doi.org/10.6937/TWC.202009/PP_68\(3\).0002](https://doi.org/10.6937/TWC.202009/PP_68(3).0002)

Doost, Z. H., & Yaseen, Z. M. (2024). Allocation of reservoirs sites for runoff management towards sustainable water resources: Case study of Harirud River Basin, Afghanistan. *Journal of Hydrology*, 634(November 2023), 131042. <https://doi.org/10.1016/j.jhydrol.2024.131042>

dos Santos, F. M., de Souza Pelinson, N., de Oliveira, R. P., & Di Lollo, J. A. (2023). Using the SWAT model to identify erosion prone areas and to estimate soil loss and sediment transport in Mogi Guaçu River basin in Sao Paulo State, Brazil. *CATENA*, 222, 106872. <https://doi.org/https://doi.org/10.1016/j.catena.2022.106872>

Duffy, C., Toth, G. G., Hagan, R. P. O., McKeown, P. C., Rahman, S. A., Widyaningsih, Y., Sunderland, T. C. H., & Spillane, C. (2021). Agroforestry contributions to smallholder farmer food security in Indonesia. *Agroforestry Systems*, 95(6), 1109–1124. <https://doi.org/10.1007/s10457-021-00632-8>

Dutta, S. (2016). Soil erosion, sediment yield and sedimentation of reservoir: a review. *Modeling Earth Systems and Environment*, 2(3), 1–18. <https://doi.org/10.1007/s40808-016-0182-y>

Fahad, S., Chavan, S. B., Chichaghare, A. R., Rawale, G., Yadav, D. K., Kumar, V., Farooq, T. H., & Ali, B. (2022). *Agroforestry Systems for Soil Health Improvement and Maintenance*. 1–25.

Firmansyah, R., Budi, S., Lulus, W. W., & Djati H., S. (2014). Pengelolaan sumber daya energi di kalimantan untuk mendukung kemandirian energi dan pertumbuhan industri. *Jurnal Pengembangan Energi Nuklir*, 16(1), 43–53.

Gassman, P. W., Reyes, M. R., Green, C. H., & Arnold, J. G. (2007). The Soil and Water Assessment Tool: Historical Development, Applications, and Future Research Directions. *Transactions of the ASABE*, 50(4), 1211–1250.

Getu Engida, T., Nigussie, T. A., Aneseyee, A. B., & Barnabas, J. (2021). Land Use/Land Cover Change Impact on Hydrological Process in the Upper Baro Basin, Ethiopia. *Applied and Environmental Soil Science*, 2021. <https://doi.org/10.1155/2021/6617541>

- Guo, C., Jin, Z., Guo, L., Lu, J., Ren, S., & Zhou, Y. (2020). On the cumulative dam impact in the upper Changjiang River: Streamflow and sediment load changes. *Catena*, 184(September 2019), 104250. <https://doi.org/10.1016/j.catena.2019.104250>
- Guse, B., Pfannerstill, M., Gafurov, A., Kiesel, J., Lehr, C., & Fohrer, N. (2017). Identifying the connective strength between model parameters and performance criteria. *Hydrology and Earth System Sciences*, 5663–5679.
- Hakala, K., Addor, N., Teutschbein, C., Vis, M., Dakhlaoui, H., & Seibert, J. (2019). Hydrological modeling of climate change impacts. *Encyclopedia of Water: Science, Technology, and Society*, 1–20.
- Hasanah, U., Amami, A., & Amelia, R. (2023). Forest conversion to agricultural lands: impact on soil physical characteristics. *IOP Conference Series: Earth and Environmental Science*, 1253, 12027. <https://doi.org/10.1088/1755-1315/1253/1/012027>
- Hoedl, S. (2019). A Social License for Nuclear Technologies. *Nuclear Non-Proliferation in International Law - Volume IV*, IV, 19–44. https://doi.org/10.1007/978-94-6265-267-5_2
- Hong, D. N. T., Tatsumi, K., Quang, M. V., Yamashita, M., Nhat, T. P., & Bich, N. N. T. (2022). Coastline dynamics and erosion/accretion in the estuaries of the lower Mekong Delta, Vietnam. *Journal of Agricultural Meteorology*, 78(4), 121–136. <https://doi.org/10.2480/agrmet.D-21-00048>
- IAEA. (2010). Water Chemistry and Clad Corrosion/Deposition Including Fuel Failures. In *PROCEEDINGS OF A TECHNICAL MEETING HELD*.
- IAEA. (2011a). *Good Practices for Water Quality Management in Research Reactors and Spent Fuel Storage Facilities* (Issue NP-T-5.2). INTERNATIONAL ATOMIC ENERGY AGENCY. <https://www.iaea.org/publications/8539/good-practices-for-water-quality-management-in-research-reactors-and-spent-fuel-storage-facilities>
- IAEA. (2011b). *Meteorological and Hydrological Hazards in Site Evaluation for Nuclear Installations (Specific Safety Guide No. SSG-18)*. 15–23.
- Ihsan, H. M., Arrasyid, R., Darsiharjo, D., & Ruhimat, M. (2023). the Use of Geographic Information System (Gis) and Remote Sensing (Rs) for Potential Unconfined Groundwater in Structural and Volcano Landforms. *Geodesy and Cartography (Vilnius)*, 49(2), 125–132. <https://doi.org/10.3846/gac.2023.17455>

- Injliliana, L., Widiastuti, T., & Riyono, J. N. (2021). Erodibilitas Tanah (K) Pada Berbagai Tutupan Lahan Di Desa Baru Kecamatan Silat Hilir Kabupaten Kapuas Hulu. *Jurnal Hutan Lestari*, 8(4), 773. <https://doi.org/10.26418/jhl.v8i4.44323>
- J. G. Arnold, Kiniry, J. R., Srinivasan, R., Williams, J. R., Haney, E. B., & Neitsch, S. L. (2012). Soil & Water Assessment Tool. Version 2012. *Input/Output Documentation Version 2012*, 654.
- James Chawanda, C. (2015). *Hydrological Modelling Using SWAT+ Training Manual (v1)*. <https://www.qgis.org/en/site/forusers/download.html>
- Janjić, J., & Tadić, L. (2023). Fields of Application of SWAT Hydrological Model—A Review. *Earth (Switzerland)*, 4(2), 331–344. <https://doi.org/10.3390/earth4020018>
- Jayakrishnan, R., Srinivasan, R., Santhi, C., & Arnold, J. G. (2005). Advances in the application of the SWAT model for water resources management. *Hydrological Processes*, 19(3), 749–762. <https://doi.org/10.1002/hyp.5624>
- Jiefeng, L., Qing, Z., Ruidong, L., Wenlong, W., & Yibao, L. (2024). *Effects of plant root systems on runoff and sediment yield characteristics of dump slopes in the Erdos mining area*. 42077079.
- Kalogiannidis, S., Kalfas, D., Giannarakis, G., & Paschalidou, M. (2023). *Integration of Water Resources Management Strategies in Land Use Planning towards Environmental Conservation*. 1–20.
- Kang, Z., Lou, G., Guo, Y., & Xu, P. (2024). The anti-erosion potential of taproots and fibrous roots in alluvial loess of north China: a pot experiment. *Journal of Soils and Sediments*, 24(2), 847–862. <https://doi.org/10.1007/s11368-023-03678-6>
- Kemenpu RI. (2009). *PERMEN PU No 16/PRT/M/2009 Tentang Pedoman Penyusunan Rencana Tata Ruang Wilayah Kabupaten*.
- Kepala Daerah Provinsi Kalimantan Barat. (2014). *Peraturan Daerah Provinsi Kalimantan Barat Nomor 10 Tahun 2014 Tentang Rencana Tata Ruang Wilayah Provinsi Kalimantan Barat Tahun 2014 - 2034*. 1–58.
- Khair, R. M., NNPS, R. I. N., Prihatini, N. S., Abdi, C., & Kamal, M. (2019). Besaran Laju Erosi Dan Jumlah Sidementasi Pada Sub Daerah Aliran Sungai (Das) Riam Kanan Kabupaten Banjar Provinsi Kalimantan Selatan. *Jukung (Jurnal Teknik Lingkungan)*,

- Kim, B. J., Kim, M., Hahm, D., & Han, K. Y. (2021). Probabilistic flood hazard assessment method considering local intense precipitation at NPP sites. *Journal of Hydrology*, 597(February), 126192. <https://doi.org/10.1016/j.jhydrol.2021.126192>
- Kim, C., Kim, H., Yu, K., & Woo, H. (1997). Development of methods for predicting sediment yield rate for medium-size river basins in Korea. *Transactions of The International Congress on Large Dams*, 3, 325–338.
- Kim, H. S., Kim, J., Sohn, S., Seo, J., Cho, Y., & Park, H. J. (2024). Experimental and numerical investigation on the fouling of a river water source heat pump system. *Applied Thermal Engineering*, 245, 122784. <https://doi.org/https://doi.org/10.1016/j.applthermaleng.2024.122784>
- Kuznietsov, P., Biedunkova, O., Pryshchepa, A., & Yaroshchuk, O. (2024). Evaluation of Water Quality's Influence on the Water Discharge of a Nuclear Power Plant (Non-Radiative Impact Factor). *Engineering Proceedings*, 67(1). <https://doi.org/10.3390/engproc2024067003>
- Lamba, J., Thompson, A. M., Karthikeyan, K. G., Panuska, J. C., & Good, L. W. (2016). Effect of best management practice implementation on sediment and phosphorus load reductions at subwatershed and watershed scale using SWAT model. *International Journal of Sediment Research*, 31, 386–394. <https://api.semanticscholar.org/CorpusID:132324713>
- Lin, H., Zhang, S., Cao, R., Yu, S., Bai, W., Zhang, R., Yang, J., Dai, L., Chen, J., Zhang, Y., Xu, H., Liu, K., & Zhang, X. (2024). A review on the risk, prevention and control of cooling water intake blockage in coastal nuclear power plants. *Nuclear Engineering and Technology*, 56(2), 389–401. <https://doi.org/10.1016/j.net.2023.10.009>
- Liu, F., Yuan, L., Yang, Q., Ou, S., Xie, L., & Cui, X. (2014). Hydrological responses to the combined influence of diverse human activities in the Pearl River delta, China. *CATENA*, 113, 41–55. <https://doi.org/https://doi.org/10.1016/j.catena.2013.09.003>
- Luo, Y., Su, B., Yuan, J., Li, H., & Zhang, Q. (2011a). GIS techniques for watershed delineation of SWAT model in plain polders. *Procedia Environmental Sciences*, 10(PART C), 2050–2057. <https://doi.org/10.1016/j.proenv.2011.09.321>
- Luo, Y., Su, B., Yuan, J., Li, H., & Zhang, Q. (2011b). GIS Techniques for Watershed

Delineation of SWAT Model in Plain Polders. *Procedia Environmental Sciences*, 10, 2050–2057. <https://doi.org/https://doi.org/10.1016/j.proenv.2011.09.321>

Mariani, P. P., dos Reis Castro, N. M., Sari, V., Schmitt, T. C., & Pedrollo, O. C. (2024). Different Infiltration Methods for Swat Model Seasonal Calibration of Flow and Sediment Production. *Water Resources Management*, 38(1), 303–322. <https://doi.org/10.1007/s11269-023-03671-1>

Mebarki, H., Maref, N., & Dris, M. E. A. (2024). Modelling the monthly hydrological balance using Soil and Water Assessment Tool (SWAT) model: A case study of the Wadi Mina upstream watershed. *Journal of Groundwater Science and Engineering*, 12(2), 161–177. <https://doi.org/10.26599/JGSE.2024.9280013>

Meng, X., Zhu, Y., Yin, M., & Liu, D. (2021). The impact of land use and rainfall patterns on the soil loss of the hillslope. *Scientific Reports*, 11(1), 1–10. <https://doi.org/10.1038/s41598-021-95819-5>

Miguel, S. (2020). *Mekong River Basin Using SWAT Model*. 1–25.

Morgan, R. P. C. (2009). *Soil Erosion & Conservation* (3rd ed.). UK: Blackwell Publishing.

Muhammad, A. G., & Soetopo, B. (2016). Pemodelan dan Estimasi Sumber Daya Uranium di Sektor Lembah Hitam , Kalan , Kalimantan Barat - Uranium Resources Modeling and Estimation in Lembah Hitam Sector , Kalan , West Kalimantan. *Eksplorium*, 37(1), 1–12.

Müller-Steinhagen, H., M. R., M., & and Watkinson, A. P. (2011). Heat Exchanger Fouling: Mitigation and Cleaning Strategies. *Heat Transfer Engineering*, 32(3–4), 189–196. <https://doi.org/10.1080/01457632.2010.503108>

Mutaqin, B. W., Marfai, M. A., Hadmoko, D. S., Wijayanti, H., Lavigne, F., & Faral, A. (2021). Comparison of DEMs Spatial Resolution for Geomorphological Study in a Small Volcanic Island of Tidore, North Maluku, Indonesia. *Journal of Hunan University Natural Sciences*, 48(6).

Narendra, B. H., Siregar, C. A., Dharmawan, I. W. S., Sukmana, A., Pramono, I. B., Basuki, T. M., Yudono, H., Hadi, S., & Supangat, A. B. (2021). *A Review on Sustainability of Watershed Management in Indonesia*. 1–29.

Nguyen, H. H., Recknagel, F., Meyer, W., Frizenschaf, J., Ying, H., & Gibbs, M. S. (2019). Comparison of the alternative models SOURCE and SWAT for predicting catchment

streamflow, sediment and nutrient loads under the effect of land use changes. *Science of the Total Environment*, 662, 254–265. <https://doi.org/10.1016/j.scitotenv.2019.01.286>

Octavia, D., & Rachmat, H. H. (2019). Promoting agroforestry model in increasing land cover to sustain community livelihood in Paru Promoting agroforestry model in increasing land cover to sustain community livelihood in Paru Village Forest. *ICAF SEANAFE 2019*, 449 (2020). <https://doi.org/10.1088/1755-1315/449/1/012011>

P3GL. (2021). Laporan Akhir Survei Geologi Kelautan Tapak PLTN Di Pesisir Kalimantan Barat. In *Bandung: PPPGL* (Vol. 1, Issue 201310200311137).

Pane, Y. P. S., Sholichin, M., & Asmaranto, R. (2021). Analisa Erosi di DAS Kali Lamong Menggunakan Pendekatan ArcSWAT. *Jurnal Teknologi Dan Rekayasa Sumber Daya Air*, 1(2), 876–889. <https://doi.org/10.21776/ub.jtresda.2021.001.02.44>

Peluso, N. L. (2018). Entangled Territories in Small-Scale Gold Mining Frontiers: Labor Practices, Property, and Secrets in Indonesian Gold Country. *World Development*, 101, 400–416. <https://doi.org/10.1016/j.worlddev.2016.11.003>

Peraturan Badan Tenaga Pengawas Tenaga Nuklir Nomor 4 Tahun 2019 Tentang Evaluasi Tapak Instalasi Nuklir Untuk Aspek Dispersi Zat Radioaktif Di Udara Dan Air (2019).

Pietroń, J., Chalov, S., Chalova, A., Alekseenko, A., & Jarsjö, J. (2017). Extreme spatial variability in riverine sediment load inputs due to soil loss in surface mining areas of the Lake Baikal basin. *Catena*, 152, 82–93. <https://doi.org/10.1016/j.catena.2017.01.008>

PLN. (2021). Rencana Usaha Penyediaan Tenaga Listrik (RUPTL) PT PLN (Persero) 2021-2030. *Rencana Usaha Penyediaan Tenaga Listrik 2021-2030*, 2019–2028.

Podgrajsek, Euskirchen, E. S., Edgar, C. W., Turetsky, M. R., Waldrop, M. P., Harden, J. W., & Podgrajsek. (2014). Influence of watershed-climate interactions on stream temperature, sediment yield, and metabolism along a land use intensity gradient in Indonesian Borneo. *Journal of Geophysical Research: Biogeosciences*, 119(Figure 1), 1576–1595. <https://doi.org/10.1002/2013JG002516>.Received

Pratiwi, M., Suryad, U. E., & Agustine, L. (2024). *Prediksi Erosi dengan Metode Usle pada Perkebunan Kelapa Sawit Masyarakat di Kecamatan Anjongan Kabupaten Mempawah*. 10(2), 107–117.

Qurniati, R., & Kaskoyo, H. (2019). *Kontribusi Tanaman Agroforestri terhadap Pendapatan*

dan Kesejahteraan Petani Contribution of Agroforestry Plants to Farmers ' Income and Welfare. 7(1), 118–127.

- Ramadhan, R., Faris, S., Akihisa, M., & and Abdoellah, O. S. (2023). Shifting Cultivation, Palm Oil Plantation and Indirect Deforestation: A Study on Dusun Tonggong, Parindu, West Kalimantan, Indonesia. *Journal of Sustainable Forestry*, 42(3), 288–307. <https://doi.org/10.1080/10549811.2021.2007491>
- Romiyanto, Barus, B., & Sudadi, U. (2015). Model Spasial Kerusakan Lahan Dan Pencemaran Air Akibat Kegiatan Pertambangan Emas Tanpa Izin Di Daerah Aliran Sungai Raya, Kalimantan Barat. *Jurnal Ilmu Tanah Dan Lingkungan*, 17(2), 47. <https://doi.org/10.29244/jitl.17.2.47-53>
- Sakti, I. L., Chandra, T. O., Studi, P., & Tanah, I. (2024). *Prediksi tingkat bahaya erosi dan tindakan konservasi tanah pada perkebunan karet rakyat di kelurahan nyarungkop kecamatan singkawang timur.* 1138–1145.
- Salim, A. G., Dharmawan, I. W. S., & Narendra, B. H. (2019). Pengaruh Perubahan Luas Tutupan Lahan Hutan Terhadap Karakteristik Hidrologi DAS Citarum Hulu. *Jurnal Ilmu Lingkungan*, 17(2), 333. <https://doi.org/10.14710/jil.17.2.333-340>
- Samimi, M., Mirchi, A., Moriasi, D., Ahn, S., Alian, S., Taghvaeian, S., & Sheng, Z. (2020). Modeling arid/semi-arid irrigated agricultural watersheds with SWAT: Applications, challenges, and solution strategies. *Journal of Hydrology*, 590, 125418.
- Saunders, W. (1999). Preparation of DEMs for Use in Environmental Modeling Analysis. *ESRI User Conference*. <https://proceedings.esri.com/library/userconf/proc99/proceed/papers/pap802/p802.htm#Une>
- Shahriar, M. M., Wang, J. X., Alam, S., & Patterson, W. B. (2016). Soil-binding ability of vegetation roots in enhancing erosion resistance of a shallow slope. *International Journal of Geotechnical Engineering*, 10(4), 409–417. <https://doi.org/10.1080/19386362.2016.1168608>
- Sipayung, E. S., Sitanggung, G., & Damanik, M. M. B. (2014). Perbaikan Sifat Fisik dan Kimia Tanah Ultisol Simalingkar B Kecamatan Pancur Batu dengan Pemberian Pupuk Organik Supernasa dan Rockphosphit Seta Pengaruhnya Terhadap Produksi Tanaman Jagung (*Zea*

- Six, J., Feller, C., Denef, K., Ogle, S. M., De Moraes Sa, J. C., & Albrecht, A. (2002). Soil organic matter, biota and aggregation in temperate and tropical soils - Effects of no-tillage. *Agronomie*, 22(7–8), 755–775. <https://doi.org/10.1051/agro:2002043>
- Stocking, M., Murnaghan, N., Tengberg, A., & Humphreys, G. (2000). *LAND DEGRADATION – GUIDELINES FOR FIELD ASSESSMENT*.
- Sukumaran, H., & Sahoo, S. N. (2020). A Methodological Framework for Identification of Baseline Scenario and Assessing the Impact of DEM Scenarios on SWAT Model Outputs. *Water Resources Management*, 34(15), 4795–4814. <https://doi.org/10.1007/s11269-020-02691-5>
- Sulistiana, T., Parapat, A. D., & Aristomo, D. (2019). Analisis Akurasi Vertikal Digital Elevation Model Nasional (DEMNAS) Studi Kasus Kota Medan. *FIT ISI 2019 Dan ASEANFLAG 72nd COUNCIL MEETING*, 1(November 2019), 37–45.
- Suni, Y. P. K. (2023). Mengenal Berbagai Model Hidrologi di Indonesia. *Eternitas: Jurnal Teknik Sipil*, 2(2), 11–20.
- Suryani, E. (2012). PENINGKATAN PRODUKTIVITAS TANAH MELALUI SISTEM AGROFORESTRI Increasing Soil Productivity through Agroforestry System. *Jurnal Sumberdaya Lahan*, 6(2).
- Suwarna, N., Sutrisno, Keyser, Langford, F. D. R. P., & Trai, D. S. (1993). *Peta Geologi Lembar Singkawang, Kalimantan Skala 1:250.000*.
- Syaeful, H., Sukadana, I. G., Indrastomo, F. D., Rachael, Y., Ciputra, R. C., Adimedha, T. B., Pratiwi, F., Rosianna, I., Yuliastuti, Cakrabuana, W., Faizah, Y., Santoso, E., Sudrajat, A., & Zakaria, Z. (2024). Near regional geology of Pantai Gosong NPP Site, West Kalimantan, Indonesia: Capable fault and geotechnical hazards assessment. *Nuclear Engineering and Design*, 423, 113207. <https://doi.org/https://doi.org/10.1016/j.nucengdes.2024.113207>
- Tehsome, H. H., Engida, A. N., & Gebrie, G. S. (2021). Effect of Watershed Delineation on SWAT Model Performance for Daily Streamflow Simulation , in Blue Nile , East Africa. *International Journal of Engineering Research & Technology*, 10(December), 528–536.
- Tesema, T. A. (2021). Impact of identical digital elevation model resolution and sources on

Thomas, M., Thorp, M., & McAlister, J. (1999). Equatorial weathering, landform development and the formation of white sands in north western Kalimantan, Indonesia. *Catena*, 36(3), 205–232. [https://doi.org/10.1016/S0341-8162\(99\)00014-4](https://doi.org/10.1016/S0341-8162(99)00014-4)

Thomaz, E. L., Marcatto, F. S., & Antoneli, V. (2022). *Geography and Sustainability Soil erosion on the Brazilian sugarcane cropping system: An overview*. 3, 129–138. <https://doi.org/10.1016/j.geosus.2022.05.001>

Tinambunan, D. (1988). Potensi Jalan Hutan Dalam Akselerasi Erosi Tanah Di Kalimantan Barat. *Jurnal Penelitian Hasil Hutan*, 5(3), 104–113.

Troolin, W. D., & Clancy, K. (2016). Comparison of Three Delineation Methods Using the Curve Number Method to Model Runoff. *Journal of Water Resource and Protection*, 08(11), 945–964. <https://doi.org/10.4236/jwarp.2016.811077>

USDA NRCS. (1972). *National Engineering Handbook: Part 630 - Hydrology*. U.S. Department of Agriculture. https://www.hydrocad.net/neh.htm?gad_source=1&gclid=CjwKCAiAxea5BhBeEiwAh4t5K_r9YDBHA0SjcH4Ozz2Gv9p_icc2-8qGIeoE5tu5gGpDMkVJeTF3qRoCV5MQAvD_BwE

Virlayani, A., Isnain Munafray, M., Ikhwant Amir, M., Amir Zainuddin, M., Studi Teknik Pengairan, P., Teknik, F., Muhammadiyah Makassar Jl Sultan Alauddin No, U., & Selatan, S. (2024). Analisis Karakteristik Sedimen Dan Laju Sedimentasi Sungai Tino Kabupaten Jeneponto Sediment Characteristics and Analysis Sedimentation Rate of the Tinno River Jeneponto Regency. *Jurnal Teknik Hidro*, 17(1), 8–13.

Wang, B., Steiner, J., Zheng, F., & Gowda, P. (2017). Impact of rainfall pattern on interrill erosion process: Rainfall pattern effect on interrill erosion. *Earth Surface Processes and Landforms*, 42. <https://doi.org/10.1002/esp.4140>

Wang, S., Zhang, W., & Chen, F. (2019). Simulation of Drainage Capacity in a Coastal Nuclear Power Plant under Extreme Rainfall and Tropical Storm. In *Sustainability* (Vol. 11, Issue 3). <https://doi.org/10.3390/su11030642>

Wang, W., Chen, L., Lin, C., Liu, Y., Dong, X., Xiong, J., Liu, G., Zhang, Y., Li, J., & Shen,

- Z. (2023). Source appointment at large-scale and ungauged catchment using physically-based model and dynamic export coefficient. *Journal of Environmental Management*, 326, 116842. <https://doi.org/https://doi.org/10.1016/j.jenvman.2022.116842>
- Wang, Y., Jiang, R., Xie, J., Zhao, Y., Yan, D., & Yang, S. (2019). Soil and Water Assessment Tool (SWAT) Model: A Systemic Review. *Journal of Coastal Research*, 93(sp1), 22–30. <https://doi.org/10.2112/SI93-004.1>
- Williams, J. R. (1975). Sediment-yield prediction with universal equation using runoff energy factor. *Proceedings of the Sediment Yield Workshop.*, 244.
- Williams, J. R. (1977). Sediment Yield Prediction Based on Watershed Hydrology. *Transactions of the ASAE*, 1100. <https://doi.org/10.13031/2013.35710>
- Xue, J. F., & Xia, J. (2007). Research on runoff sub-model of non-point source pollution model. *Water International*, 32(3), 428–438. <https://doi.org/10.1080/02508060708692222>
- Yasidi, F., Khakhim, N., Mardiatno, D., & Kurniawan, A. (2023). Utilization of Multitemporal Land Cover Data and GIS for SWAT-Based Sedimentation and Runoff Modeling in the Lasolo Watershed, Indonesia. *Journal of Environmental Management and Tourism*, 14(3), 678–688. [https://doi.org/10.14505/jemt.v14.3\(67\).07](https://doi.org/10.14505/jemt.v14.3(67).07)
- Yoon, B., & Woo, H. (2000). Sediment problems in Korea. *Journal of Hydraulic Engineering*, 126(7), 486–491.
- Zhang, H., Meng, C., Wang, Y., Wang, Y., & Li, M. (2020). Comprehensive evaluation of the effects of climate change and land use and land cover change variables on runoff and sediment discharge. *Science of the Total Environment*, 702, 134401.
- Zhang, X. C. (John), & Wang, Z. L. (2017). Interrill soil erosion processes on steep slopes. *Journal of Hydrology*, 548, 652–664. <https://doi.org/https://doi.org/10.1016/j.jhydrol.2017.03.046>
- Zhang, X. Z., Sun, J., Zhao, X. D., Dou, X. P., Xia, W. Y., Zhao, G., & Jiao, J. (2019). Analysis on The Influencing Factors of Sediment Deposition in The Intake Open Channel of Nuclear Power Plant in Estuary and Coast. *Proceedings of the 10th International Conference on Asian and Pacific Coasts*.
- Zhang, Y., Wang, K., Wang, J., Liu, C., & Shangguan, Z. (2021). Changes in soil water holding capacity and water availability following vegetation restoration on the Chinese Loess